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AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A coated metal electrode, the metal electrode comprising a coating and an overcoating, wherein the overcoating comprises a surfactant, wherein the coating comprises a sulfur containing moiety in its molecular structure, wherein

the coating does not result in a loss of the desired sensing characteristics of the electrode, electrochemical properties of the electrode eurrent, and wherein;

the coating is selected from the group consisting of 2-mercaptoethanol, 2-mercaptoethylamine, thiophene, L-cysteine, L-cysteine, D-cysteine, L-homocysteine, D-homocysteine, and wherein;

a temporal stability of the coated metal electrode is greater than a temporal stability of a corresponding uncoated metal electrode.

- 2. (Cancelled) The coated metal electrode according to claim 1, wherein the sulfur containing moiety comprises a thiol.
- 3. (Cancelled) The coated metal electrode according to claim 1, wherein the sulfur containing moiety comprises a disulfide.
- 4. (Cancelled) The coated metal electrode according to claim 1, wherein the sulfur containing moiety comprises SO_x.
- 5. (Cancelled) The coated metal electrode according to claim 1, wherein the sulfur containing moiety is incorporated in a cyclic structure.
- 6. (Cancelled) The coated metal electrode according to claim 1, wherein the coating further comprises a hydrophilic group.
- 7. (Cancelled) The coated metal electrode according to claim 6, wherein the hydrophilic group is selected from the group consisting of a hydroxyl group, an amine group, a carboxyl group, a carboxyl group, and an oligo(ethyleneoxide)chain group.

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8. (Cancelled) The coated metal electrode according to claim 6, wherein the hydrophilic group comprises a zwitterionic species.

- 9. (Cancelled) The coated metal electrode according to claim 8, wherein the zwitterionic species comprises an amine group and a carboxyl group.
- 10. (Cancelled) The coated metal electrode according to claim 6, wherein the coating further comprises a spacer between the sulfur containing moiety and the hydrophilic group.
- 11. (Cancelled) The coated metal electrode according to claim 10, wherein the spacer comprises an alkyl group or an aromatic group.
- 12. (Cancelled) The coated metal electrode according to claim 11, wherein the alkyl group comprises at least one of a methylene group and an ethylene group.
- 13. (Cancelled) The coated metal electrode according to claim 1, wherein the coating further comprises a compound selected from the group consisting of 2-mercaptoethanol, 2-mercaptoethylamine, 3-mercaptopropionic acid, thiophene, cysteine, homocysteine, 3-carboxythiophene, and cystine.
- 14. (Previously Presented) The coated metal electrode according to claim 13, wherein the compound is a stereospecific compound.
- 15. (Previously Presented) The coated metal electrode according to claim 14, wherein the stereospecific compound comprises a mixture of D isomers and L isomers.
- 16. (Previously Presented) The coated metal electrode according to claim 14, wherein the stereospecific compound comprises a D isomer.
- 17. (Previously Presented) The coated metal electrode according to claim 14, wherein the

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stereospecific compound comprises an L isomer.

18. (Currently Amended) A method of preparing a metal electrode stabilized by a coating, the method comprising: contacting a metal electrode with a substance comprising a sulfur containing moiety in its molecular structure; and thereafter contacting the metal electrode with a surfactant, whereby a coated metal electrode is obtained, wherein

the coating does not result in a loss of the desired sensing characteristics of the electrode, electrochemical properties of the electrode eurrent, and wherein;

the coating is selected from the group consisting of 2-mercaptoethanol, 2-mercaptoethylamine, 3-mercaptopropionic acid, thiophene, L-cysteine, L-cysteine, D-cysteine, D-cysteine, L-homocysteine, D-homocysteine, and wherein;

a temporal stability of the coated metal electrode is increased relative to that of a corresponding uncoated metal electrode.

19. (Currently Amended) A method of sensing an analyte, the method comprising: contacting a sample comprising an analyte to a metal electrode, the metal electrode comprising a coating and an overcoating, wherein the overcoating comprises a surfactant, wherein the coating comprises a sulfur containing moiety in its molecular structure, wherein

the coating does not result in a loss of the desired sensing characteristics of the electrode, electrochemical properties of the electrode eurrent, and wherein;

the coating is selected from the group consisting of 2-mercaptoethanol, 2-mercaptoethylamine, 3-mercaptopropionic acid, thiophene, L-cysteine, L-cysteine, D-cysteine, D-cysteine, L-homocysteine, and wherein;

a temporal stability of the coated metal electrode is greater than a temporal stability of a corresponding uncoated metal electrode; and obtaining a measurement indicative of a presence of the analyte in the sample.

20. (New) The method of claim 18, wherein the coating further comprises a stereospecific compound.

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21. (New) The method of claim 18, wherein the stereospecific compound comprises a mixture of D isomers and L isomers.

- 22. (New) The method of claim 18, wherein the stereospecific compound comprises a D isomer.
- 23. (New) The method of claim 18, wherein the stereospecific compound comprises an L isomer.
- 24. (New) The method of claim 19, wherein the coating further comprises a stereospecific compound.
- 25. (New) The method of claim 19, wherein the stereospecific compound comprises a mixture of D isomers and L isomers.
- 26. (New) The method of claim 19, wherein the stereospecific compound comprises a D isomer.
- 27. (New) The method of claim 19, wherein the stereospecific compound comprises an L isomer.